

ABSTRACT

A method to optimize a bandwidth of a digital television (DTV) transport stream and to determine transmission cycles for tables to be transmitted as part of the DTV transport stream, the method including; setting transmission cycles for event information tables (EITs) to be transmitted in sequence according to the following condition: transmission cycle (EIT_{i-1}) < transmission cycle (EIT_i), for i=1 and 2, a time span covered by EIT_{i-1} being prior to a time span covered by EIT_i, where the transmission cycle for the EIT₀ is set narrower than the transmission cycle for the EIT₁; setting a transmission cycle for an extended text table ETT₃ containing program description information associated with one of the event information tables other than the EIT₀ and the EIT₁, where the transmission cycle of the ETT₃ is greater than a sum of the transmission cycle of the EIT₀ and the transmission cycle of the EIT₁.

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